

A New Polymer-Supported Reagent for the Synthesis of β -Lactams in Solution

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Characterisation of β -lactams 6-13:

6 m.p. 116-118°C (Lit. m.p. 118°C) Sheradsky T.; Zbaida D. *J. Org. Chem.* **1980**, 45, 3567.

7 m.p. 186-187°C (Lit m.p. 186-188°C): Krishnaswamy D., Govande V.V., Gumaste V. K., Bhawal B. M., Deshmukh A.R. A. S. *Tetrahedron*, **2002**, 58, 2215.

8 m.p. 109-111°C (Lit m.p. 112 °C: Kavrakova I; Simova E; M, Kurtev, B. J. *J. Chem. Res. Miniprint*, **1988**, 12, 3118.

9 ^1H NMR (200 MHz, CDCl_3) 1.20(t, 3H, $J = 7$ Hz), 1.52 (m, 2H), 3.51 (m, 1 H, *cis* isomer) 3.62 (m, 1H, *trans* isomer), 4.0 (d, $J = 7$ Hz, *cis* isomer), 4.12 (d, $J = 2$ Hz, *trans* isomer), 4.50 (s, 2H *cis* isomer), 4.87 (s, 2H, *trans* isomer). MS (ESI, m/z) 266 ($M^+ + 1$). NMR data reported in Hasegawa, T.; Watabe, M.; Aoyama, H.; Omote, Y *Tetrahedron* **1977**, 33, 485.

10 m.p. 172-174°C (Lit m.p. 174-175°C Amin, S.G.; Glazer, R.D.; Manhas, M.S. *Synthesis*, **1979**, 210)

11 m.p. 106-107°C (Lit m.p. 107-108°C see above)

12 m.p. 178-179°C (Lit m.p. 177-178°C see above)

13 m.p. 146-147°C (Lit. m.p. 148°C see above)

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